	2003 NCSCOS	2009 Essential Standards
Number		
Representations of numbers	Numbers through 30 Model, Number word, number	Numbers through at least 30 Model and number word (oral) Use numerals to represent physical models and representations.
Counting	Up to 30 Forward to 30 Backward from 30	To at least 30 1-to-1 correspondence (object matched to object) 1-to-1 tagging (object matched to number) Synchrony (one number for one object) Recognizing zero Counting forward to 30, backward from 10 Recognizing sets of objects (subitizing, Quick Images/dot cards)
Compare/order sets and numbers	Up to 30	Compare using vocabulary (more, less, same/equal, one more, one less)
Ordinals	1^{st} to 10^{th}	Recognize last number tells quantity (e.g., object number is 5 is the 5^{th} object)
Estimate quantities	Up to 10	Use estimation to determine if a set of objects is "more than 10," "less than 10," or "about the same as ten."
Equivalence	Recognize equal sets and numbers (up to 10)	Recognize that a group of objects can be broken in smaller groups, but the total number doesn't change Explain equivalence using words, numbers and objects (no symbols)
Fair shares	Share between two people Explain	Share up to 10 items between 2 or 4. Reassemble after sharing
Problem solving	Solve problems and share solutions in small groups (oral)	Use informal language to describe joining and separating situations
Composing and decomposing		Explain how subsets relate to the set as a whole (part-part-whole). Explain numbers (0-10) in relationship to benchmark numbers 5 and 10.
Measurement		
Comparing by attributes	Compare attributes of two objects using vocabulary (color, weight, height, width, length, texture)	Compare two objects in terms of length and weight Use vocabulary to describe differences in length and weight
Time and calendar	Recognize concepts of calendar time using vocabulary (days, months, seasons)	Use the words "day, morning, afternoon, night (evening), today, tomorrow and yesterday" to refer to personal activities and events. Work with tools to keep track of time and events Recognize days, months and seasons are patterns

Geometry		
2-d and 3-d	Identify, build, draw, and name triangles, rectangles, circles Identify, build, draw, and name spheres and cubes	Use geometric properties (open, closed, sides and angles) to identify and compare two-dimensional and three-dimensional figures. Construct a design or figure using its parts Recognize parts of figures to identify sides and angles of 2-D figures.
Visualization	Model and use directional and positional vocabulary Complete simple spatial visualizations tasks and puzzles	Use positional and directional terms to describe locations and movement of objects Use spatial reasoning to move objects to fill shapes Use spatial reasoning to model objects in environment
Data		
Data	Collect and organize data in groups Display and describe data with concrete and pictorial graphs as a group activity	Collect, organize and display data to give information to a question Use concrete objects/pictures to make cluster graphs and picture graphs
Algebra		
Sorting	Sort and classify by one attribute	Classify by one attribute Use vocabulary to describe likenesses and differences
Patterning	Create and extend patterns with actions, words and objects	Representing patterns with actions, words or objects Use repeating patterns to make predictions and extend simple repeating patterns